

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=4; day=9; hr=14; min=48; sec=31; ms=890; ]

=====

Application No: 10588414

Version No: 1.2

Input Set:

Output Set:

Started: 2008-04-09 14:39:02.594

Finished: 2008-04-09 14:39:04.323

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 729 ms

Total Warnings: 120

Total Errors: 0

No. of SeqIDs Defined: 120

Actual SeqID Count: 120

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2008-04-09 14:39:02.594  
**Finished:** 2008-04-09 14:39:04.323  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 729 ms  
**Total Warnings:** 120  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 120  
**Actual SeqID Count:** 120

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> David J KYLE  
Arun K DHAR

<120> RNA-Mediated Interference to Control Disease in Terrestrial and  
Aquaculture Animals

<130> E1975-00043

<140> US10/588,414

<141> 2006-08-06

<150> US 60/542,391

<151> 2004-04-06

<150> PCT US05/003715

<151> 2004-02-04

<160> 120

<170> PatentIn version 3.3

<210> 1

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Sense siRNA strand against WSSV VP28 gene

<400> 1

gguuggauca ggcuaacuuct t

21

<210> 2

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Antisense siRNA strand against WSSV VP28 gene

<400> 2

gaaguagccu gauccaacct c

21

<210> 3

<211> 65

<212> DNA

<213> Artificial

<220>

<223> Top strand oligonucleotide template for siRNA

<400> 3

gatccggttg gatcaggcta cttcttcaag agagaagtag cctgatccaa cctctttttt

60

ggaaa 65

<210> 4  
<211> 65  
<212> DNA  
<213> Artificial

<220>  
<223> Bottom strand oligonucleotide template for siRNA

<400> 4  
agctttttcca aaaaagaggt tggatcaggc tactttctctc ttgaagaagt agcctgatcc 60

aaccg 65

<210> 5  
<211> 21  
<212> DNA  
<213> Artificial

<220>  
<223> Sense siRNA strand against WSSV VP28 gene

<400> 5  
ggcuacuuca agaugacugt t 21

<210> 6  
<211> 21  
<212> DNA  
<213> Artificial

<220>  
<223> Antisense siRNA strand against WSSV VP28 gene

<400> 6  
cagucaucuu gaaguagcct g 21

<210> 7  
<211> 65  
<212> DNA  
<213> Artificial

<220>  
<223> Top strand oligonucleotide template for siRNA

<400> 7  
gatccggcta cttcaagatg actgttcaag agacagtcac cttgaagtag cctgtttttt 60

ggaaa 65

<210> 8

<211> 65  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Bottom strand oligonucleotide template for siRNA  
  
 <400> 8  
 agcttttcca aaaaacaggc tacttcaaga tgactgtctc ttgaacagtc atcttgaagt 60  
  
 agccg 65  
  
 <210> 9  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Sense siRNA strand against WSSV VP28 gene  
  
 <400> 9  
 gguguggaac aacacauca t 21  
  
 <210> 10  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Antisense siRNA strand against WSSV VP28 gene  
  
 <400> 10  
 ugauguguug uuccacac t 21  
  
 <210> 11  
 <211> 63  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Top strand oligonucleotide template for siRNA  
  
 <400> 11  
 gatccggtgt ggaacaacac atcattcaag agatgatgtg ttgttccaca ctttttttgg 60  
  
 aaa 63  
  
 <210> 12  
 <211> 63  
 <212> DNA  
 <213> Artificial  
  
 <220>

<223> Bottom strand oligonucleotide template for siRNA

<400> 12  
agctttttcca aaaaagggtgt ggaacaacac atcatctctt gaatgatgtg ttgttccaca 60  
ccg 63

<210> 13  
<211> 21  
<212> DNA  
<213> Artificial

<220>  
<223> Sense siRNA strand against WSSV VP26 gene

<400> 13  
gggcaaaggu aaugucaaut t 21

<210> 14  
<211> 21  
<212> DNA  
<213> Artificial

<220>  
<223> Antisense siRNA strand against WSSV VP26 gene

<400> 14  
aугacauua ccuugccct t 21

<210> 15  
<211> 63  
<212> DNA  
<213> Artificial

<220>  
<223> Top strand oligonucleotide template for siRNA

<400> 15  
gatccggggca aaggtaatgt caatttcaag agaattgaca ttacctttgc ctttttttgg 60  
aaa 63

<210> 16  
<211> 63  
<212> DNA  
<213> Artificial

<220>  
<223> Bottom strand oligonucleotide template for siRNA

<400> 16  
agctttttcca aaaaaggggca aaggtaatgt caatttctctt gaaattgaca ttacctttgc 60

ccg 63

<210> 17

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Sense siRNA strand against WSSV VP26 gene

<400> 17

gguccuacaa uacuccucut t 21

<210> 18

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Antisense siRNA strand against WSSV VP26 gene

<400> 18

agaggaguau uguaggacct c 21

<210> 19

<211> 65

<212> DNA

<213> Artificial

<220>

<223> Top strand oligonucleotide template for siRNA

<400> 19

gatccggtcc tacaatactc ctctttcaag agaagaggag tattgtagga cctctttttt 60

ggaaa 65

<210> 20

<211> 65

<212> DNA

<213> Artificial

<220>

<223> Bottom strand oligonucleotide template for siRNA

<400> 20

agctttttcca aaaaagagggt cctacaatac tcctctttctc ttgaaagagg agtattgtag 60

gaccg 65

<210> 21

<211> 21



<212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Sense siRNA strand against WSSV VP26 gene  
  
 <400> 21  
 ggaaacauua agggaaauat t 21  
  
  
 <210> 22  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Antisense siRNA strand against WSSV VP26 gene  
  
 <400> 22  
 uauuucccuu aauguuucct g 21  
  
  
 <210> 23  
 <211> 64  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Top strand oligonucleotide template for siRNA  
  
 <400> 23  
 gatccgaaac attaagggaa atattcaaga gatatttccc ttaatgtttc ctgttttttg 60  
 gaaa 64  
  
  
 <210> 24  
 <211> 62  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Bottom strand oligonucleotide template for siRNA  
  
 <400> 24  
 agctttttcca aaaaagaaac attaagggaa atatctcttg aatatttccc ttaatgtttc 60  
 cg 62  
  
  
 <210> 25  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Sense siRNA strand against WSSV ProIn gene

<400>	25	
gggaagaauu cuacaagaat t		21
<210>	26	
<211>	21	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Antisense siRNA strand against WSSV ProIn gene	
<400>	26	
uucuuguaga auucuuccct g		21
<210>	27	
<211>	65	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Top strand oligonucleotide template for siRNA	
<400>	27	
gatccgggaa gaattctaca agaattcaag agattcttgt agaattcttc cctgtttttt		60
ggaaa		65
<210>	28	
<211>	65	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Bottom strand oligonucleotide template for siRNA	
<400>	28	
agctttttcca aaaaacaggg aagaattcta caagaatctc ttgaattctt gtagaattct		60
tccccg		65
<210>	29	
<211>	21	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Sense siRNA strand against WSSV ProIn gene	
<400>	29	
gggacccuuu caugaaacat t		21

<210> 30  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Antisense siRNA strand against WSSV ProIn gene  
  
 <400> 30  
 uguuucauga aagggucct t 21  
  
 <210> 31  
 <211> 63  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Top strand oligonucleotide template for siRNA  
  
 <400> 31  
 gatccgggac cctttcatga aacattcaag agatgtttca tgaaagggtc ccttttttgg 60  
  
 aaa 63  
  
 <210> 32  
 <211> 63  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Bottom strand oligonucleotide template for siRNA  
  
 <400> 32  
 agctttttcca aaaaagggtc cctttcatga aacatctctt gaatgtttca tgaaagggtc 60  
  
 ccg 63  
  
 <210> 33  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Sense siRNA strand against WSSV ProIn gene  
  
 <400> 33  
 ggcauacaga ugcccuuat t 21  
  
 <210> 34  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Antisense siRNA strand against WSSV ProIn gene

<400> 34  
 uaaagggcau cuguaugcct t 21

<210> 35  
 <211> 63  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Top strand oligonucleotide template for siRNA

<400> 35  
 gatccggcat acagatgccc ttatttcaag agataaaggg catctgtatg ctttttttgg 60  
 aaa 63

<210> 36  
 <211> 63  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Bottom strand oligonucleotide template for siRNA

<400> 36  
 agctttttcca aaaaaggcat acagatgccc ttatctctt gaataaaggg catctgtatg 60  
 ccg 63

<210> 37  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Sense siRNA strand against WSSV Rr092 gene

<400> 37  
 ggaagauuca ucuguucgat t 21

<210> 38  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Antisense siRNA strand against WSSV Rr092 gene

<400> 38  
 ucgaacagau gaauucuct g 21

<210> 39  
 <211> 63  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Top strand oligonucleotide template for siRNA  
  
 <400> 39  
 gatccgaaga ttcattctgtt cgattcaaga gatcgaacag atgaatcttc ctgttttttg 60  
  
 aaa 63  
  
 <210> 40  
 <211> 65  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Bottom strand oligonucleotide template for siRNA  
  
 <400> 40  
 agctttttcca aaaaacagga agattcatct gttcgatctc ttgaatcgaa cagatgaatc 60  
  
 ttccg 65  
  
 <210> 41  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Sense siRNA strand against WSSV Rr092 gene  
  
 <400> 41  
 ggacaugauu augcgugugt t 21  
  
 <210> 42  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Antisense siRNA strand against WSSV Rr092 gene  
  
 <400> 42  
 cacacgcaua aucaugucct g 21  
  
 <210> 43  
 <211> 65  
 <212> DNA

<213> Artificial

<220>

<223> Top strand oligonucleotide template for siRNA

<400> 43  
gatccggaca tgattatgcg tgtgttcaag agacacacgc ataatcatgt cctgtttttt 60  
ggaaa 65

<210> 44  
<211> 65  
<212> DNA  
<213> Artificial

<220>

<223> Bottom strand oligonucleotide template for siRNA

<400> 44  
agctttttcca aaaaacagga catgattatg cgtgtgtctc ttgaacacac gcataatcat 60  
gtccg 65

<210> 45  
<211> 21  
<212> DNA  
<213> Artificial

<220>

<223> Sense siRNA strand against WSSV Rr092 gene

<400> 45  
ggauaccauc aauagaaagt t 21

<210> 46  
<211> 21  
<212> DNA  
<213> Artificial

<220>

<223> Antisense siRNA strand against WSSV Rr092 gene

<400> 46  
cuuucuaauug augguaucct t 21

<210> 47  
<211> 63  
<212> DNA  
<213> Artificial

<220>

<223> Top strand oligonucleotide template for siRNA

<400> 47  
 gatccggata ccatcaatag aaagttcaag agactttcta ttgatggtat ccttttttgg 60  
 aaa 63

<210> 48  
 <211> 63  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Bottom strand oligonucleotide template for siRNA

<400> 48  
 agcttttcca aaaaaggata ccatcaatag aaagtctctt gaactttcta ttgatggtat 60  
 ccg 63

<210> 49  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Sense siRNA strand against WSSV DNAPol gene

<400> 49  
 ggaagugguc aucuacgact t 21

<210> 50  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Antisense siRNA strand against WSSV DNAPol gene

<400> 50  
 gucguagaug accacuucct t 21

<210> 51  
 <211> 63  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Top strand oligonucleotide template for siRNA

<400> 51  
 gatccggaag tggatcatcta cgacttcaag agagtcgtag atgaccactt ccttttttgg 60  
 aaa 63

<210> 52  
 <211> 63  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Bottom strand oligonucleotide template for siRNA

<400> 52  
 agcttttcca aaaaaggaag tggtcaccta cgactctctt gaagtcgtag atgaccactt 60  
 ccg 63

<210> 53  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Sense siRNA strand against WSSV DNAPol gene

<400> 53  
 ggaagaacau gaaacuguct t 21

<210> 54  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Antisense siRNA strand against WSSV DNAPol gene

<400> 54  
 gacaguuuca uguucucct t 21

<210> 55  
 <211> 63  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Top strand oligonucleotide template for siRNA

<400> 55  
 gatccggaag aacatgaaac tgtcttcaag agagacagtt tcatgttctt ccttttttgg 60  
 aaa 63

<210> 56  
 <211> 63  
 <212> DNA  
 <213> Artificial



<220>

<223> Bottom strand oligonucleotide template for siRNA

<400> 56  
agctttttcca aaaaaggaag aacatgaaac tgtctctctt gaagacagtt tcatgttctt 60

cgc 63

<210> 57  
<211> 21  
<212> DNA  
<213> Artificial

<220>

<223> Sense siRNA strand against WSSV DNAPol gene

<400> 57  
ggagcauugu cauuuaauat t 21

<210> 58  
<211> 21  
<212> DNA  
<213> Artificial

<220>

<223> Antisense siRNA strand against WSSV DNAPol gene

<400> 58  
uauuaaauga caaugcuct c 21

<210> 59  
<211> 65  
<212> DNA  
<213> Artificial

<220>

<223> Top strand oligonucleotide template for siRNA

<400> 59  
gatccggagc attgtcattt aatattcaag agatattaaa tgacaatgct cctctttttt 60

ggaaa 65

<210> 60  
<211> 65  
<212> DNA  
<213> Artificial

<220>

<223> Bottom strand oligonucleotide template for siRNA

<400> 60

agctttttcca aaaaagagga gcattgtcat ttaatatctc ttgaatatta aatgacaatg 60

ctccg 65

<210> 61

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Sense siRNA strand against Taura syndrome virus RdRp gene

<400> 61

ggagugucua augcggagat t 21

<210> 62

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Antisense siRNA strand against Taura syndrome virus RdRp gene

<400> 62

ucuccgcauu agacacucct g 21

<210> 63

<211> 65

<212> DNA

<213> Artificial

<220>

<223> Top strand oligonucleotide template for siRNA

<400> 63

gatccggagt gtctaatacg gagattcaag agatctccgc attagacact cctgtttttt 60

ggaaa 65

<210> 64

<211> 65

<212> DNA

<213> Artificial

<220>

<223> Bottom strand oligonucleotide template for siRNA

<400> 64

agctttttcca aaaaacagga gtgtctaatacg cgagatctc ttgaatctcc gcattagaca 60

ctccg 65

<210> 65  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Sense siRNA strand against Taura syndrome virus RdRp gene  
  
 <400> 65  
 gggaagagcg gaaagcagat t 21  
  
 <210> 66  
 <211> 21  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Antisense siRNA strand against Taura syndrome virus RdRp gene  
  
 <400> 66  
 ucugcuuucc gcucuuccct t 21  
  
 <210> 67  
 <211> 63  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Top strand oligonucleotide template for siRNA  
  
 <400> 67  
 gatccgggaa gagcgggaaag cagattcaag agatctgctt tccgctcttc ccttttttgg 60  
 aaa 63  
  
 <210> 68  
 <211> 63  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Bottom strand oligonucleotide template for siRNA  
  
 <400> 68  
 agctttttcca aaaaagggaag gagcgggaaag cagatctctt gaatctgctt tccgctcttc 60  
 ccg 63  
  
 <210> 69  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>

<223> Sense siRNA strand against Taura syndrome virus RdRp gene

<400> 69

ggaauucauu guugacaact t

21

<210> 70

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Antisense siRNA strand against Taura syndrome virus RdRp gene

<400> 70

guugucaaca augaauucct c

21

<210> 71

<211> 65

<212> DNA

<213> Artificial

<220>

<223> Top strand oligonucleotide template for siRNA

<400> 71

gatccggaat tcattgttga caacttcaag agagttgtca acaatgaatt cctctttttt

60

ggaaa